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RAW SEQUENCE LISTING

DATE: 01/26/2002

PATENT APPLICATION: US/10/000,321

TIME: 13:42:58

Input Set : N:\Crf3\RULE60\10000321.raw

Output Set: N:\CRF3\01252002\J000321.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: BRUST, Stefan

6 KNAPP, Stefan

7 GERKEN, Manfred

8 GUERTLER, Lutz

10 (ii) TITLE OF INVENTION: Peptides derived from a retrovirus of
11 the HIV group, and their use

13 (iii) NUMBER OF SEQUENCES: 11

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Foley & Lardner

17 (B) STREET: 3000 K Street, N.W., Suite 500

18 (C) CITY: Washington

19 (D) STATE: D.C.

20 (E) COUNTRY: USA

21 (F) ZIP: 20007-5109

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/10/000,321

C--> 31 (B) FILING DATE: 04-Dec-2001

32 (C) CLASSIFICATION:

34 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: 09/131,551

36 (B) FILING DATE:

38 (viii) ATTORNEY/AGENT INFORMATION:

39 (A) NAME: SANDERCOCK, Colin G.

40 (B) REGISTRATION NUMBER: 31,298

41 (C) REFERENCE/DOCKET NUMBER: 58315/106/BEAK

43 (ix) TELECOMMUNICATION INFORMATION:

44 (A) TELEPHONE: (202)672-5300

45 (B) TELEFAX: (202)672-5399

46 (C) TELEX: 904136

49 (2) INFORMATION FOR SEQ ID NO: 1:

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 48 amino acids

53 (B) TYPE: amino acid

54 (C) STRANDEDNESS:

55 (D) TOPOLOGY: linear

59 (ix) FEATURE:

ENTERED

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60      (A) NAME/KEY: Modified-site
61      (B) LOCATION: 29
62      (D) OTHER INFORMATION: /note= "Xaa represents Cys or Ser"
64      (ix) FEATURE:
65          (A) NAME/KEY: Modified-site
66          (B) LOCATION: 35
67          (D) OTHER INFORMATION: /note= "Xaa represents Cys or Ser"
70      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
72      Val Trp Gly Ile Arg Gln Leu Arg Ala Arg Leu Gln Ala Leu Glu Thr
73      1          5          10          15
W--> 75      Leu Ile Gln Asn Gln Gln Arg Leu Asn Leu Trp Gly Xaa Lys Gly Lys
76      20          25          30
W--> 78      Leu Ile Xaa Tyr Thr Ser Val Lys Trp Asn Thr Ser Trp Ser Gly Arg
79      35          40          45
82      (2) INFORMATION FOR SEQ ID NO: 2:
84          (i) SEQUENCE CHARACTERISTICS:
85              (A) LENGTH: 23 amino acids
86              (B) TYPE: amino acid
87              (C) STRANDEDNESS:
88              (D) TOPOLOGY: linear
94          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
96      Asn Gln Gln Arg Leu Asn Leu Trp Gly Cys Lys Gly Lys Leu Ile Cys
97      1          5          10          15
99      Tyr Thr Ser Val Lys Trp Asn
100     20
102      (2) INFORMATION FOR SEQ ID NO: 3:
104          (i) SEQUENCE CHARACTERISTICS:
105              (A) LENGTH: 26 amino acids
106              (B) TYPE: amino acid
107              (C) STRANDEDNESS:
108              (D) TOPOLOGY: linear
114          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
116      Arg Leu Gln Ala Leu Glu Thr Leu Ile Gln Asn Gln Gln Arg Leu Asn
117      1          5          10          15
119      Leu Trp Gly Cys Lys Gly Lys Leu Ile Cys
120      20          25
122      (2) INFORMATION FOR SEQ ID NO: 4:
124          (i) SEQUENCE CHARACTERISTICS:
125              (A) LENGTH: 26 amino acids
126              (B) TYPE: amino acid
127              (C) STRANDEDNESS:
128              (D) TOPOLOGY: linear
134          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
136      Arg Leu Gln Ala Leu Glu Thr Leu Ile Gln Asn Gln Gln Arg Leu Asn
137      1          5          10          15
139      Leu Trp Gly Ser Lys Gly Lys Leu Ile Ser
140      20          25
142      (2) INFORMATION FOR SEQ ID NO: 5:
144          (i) SEQUENCE CHARACTERISTICS:

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145      (A) LENGTH: 23 amino acids
146      (B) TYPE: amino acid
147      (C) STRANDEDNESS:
148      (D) TOPOLOGY: linear
154      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
156      Asp Gln Gln Leu Leu Gly Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys
157      1          5          10          15
159      Thr Thr Ala Val Pro Trp Asn
160      20
162 (2) INFORMATION FOR SEQ ID NO: 6:
164      (i) SEQUENCE CHARACTERISTICS:
165          (A) LENGTH: 26 amino acids
166          (B) TYPE: amino acid
167          (C) STRANDEDNESS:
168          (D) TOPOLOGY: linear
174      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
176      Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln Gln Leu Leu Gly
177      1          5          10          15
179      Ile Trp Gly Cys Ser Gly Lys Leu Ile Cys
180      20          25
182 (2) INFORMATION FOR SEQ ID NO: 7:
184      (i) SEQUENCE CHARACTERISTICS:
185          (A) LENGTH: 26 amino acids
186          (B) TYPE: amino acid
187          (C) STRANDEDNESS:
188          (D) TOPOLOGY: linear
194      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
196      Arg Ile Leu Ala Val Glu Arg Tyr Leu Lys Asp Gln Gln Leu Leu Gly
197      1          5          10          15
199      Ile Trp Gly Ser Ser Gly Lys Leu Ile Ser
200      20          25
202 (2) INFORMATION FOR SEQ ID NO: 8:
204      (i) SEQUENCE CHARACTERISTICS:
205          (A) LENGTH: 32 base pairs
206          (B) TYPE: nucleic acid
207          (C) STRANDEDNESS: single
208          (D) TOPOLOGY: linear
214      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
216      TGTGTGGTAC CGCAGCGGCA ACAGCGCTGA CG 32
218 (2) INFORMATION FOR SEQ ID NO: 9:
220      (i) SEQUENCE CHARACTERISTICS:
221          (A) LENGTH: 32 base pairs
222          (B) TYPE: nucleic acid
223          (C) STRANDEDNESS: single
224          (D) TOPOLOGY: linear
230      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
232      GTGTGTCTAG TTTAGTTATG TCAAACCAAT TC 32
234 (2) INFORMATION FOR SEQ ID NO: 10:
236      (i) SEQUENCE CHARACTERISTICS:

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237      (A) LENGTH: 146 amino acids
238      (B) TYPE: amino acid
239      (C) STRANDEDNESS:
240      (D) TOPOLOGY: linear
246      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
248      Ala Ala Thr Ala Leu Thr Val Arg Thr His Ser Val Leu Lys Gly Ile
249      1          5          10          15
251      Val Gln Gln Gln Asp Asn Leu Leu Arg Ala Ile Gln Ala Gln Gln His
252      20          25          30
254      Leu Leu Arg Leu Ser Val Trp Gly Ile Arg Gln Leu Arg Ala Arg Leu
255      35          40          45
257      Gln Ala Leu Glu Thr Leu Ile Gln Asn Gln Gln Arg Leu Asn Leu Trp
258      50          55          60
260      Gly Cys Lys Gly Lys Leu Ile Cys Tyr Thr Ser Val Lys Trp Asn Thr
261      65          70          75          80
263      Ser Trp Ser Gly Arg Tyr Asn Asp Asp Ser Ile Trp Asp Asn Leu Thr
264      85          90          95
266      Trp Gln Gln Trp Asp Gln His Ile Asn Asn Val Ser Ser Ile Ile Tyr
267      100         105         110
269      Asp Glu Ile Gln Ala Ala Gln Asp Gln Gln Glu Lys Asn Val Lys Ala
270      115         120         125
272      Leu Leu Glu Leu Asp Glu Trp Ala Ser Leu Trp Asn Trp Phe Asp Ile
273      130         135         140
275      Thr Lys
276      145
278      (2) INFORMATION FOR SEQ ID NO: 11:
280      (i) SEQUENCE CHARACTERISTICS:
281      (A) LENGTH: 145 amino acids
282      (B) TYPE: amino acid
283      (C) STRANDEDNESS:
284      (D) TOPOLOGY: linear
290      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
292      Val Ser Leu Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser Gly Ile
293      1          5          10          15
295      Val Gln Gln Gln Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His
296      20          25          30
298      Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Val
299      35          40          45
301      Leu Ala Val Glu Arg Tyr Leu Arg Asp Gln Gln Leu Leu Gly Ile Trp
302      50          55          60
304      Gly Cys Ser Gly Lys Leu Ile Cys Thr Thr Ala Val Pro Trp Asn Ala
305      65          70          75          80
307      Ser Trp Ser Asn Lys Ser Leu Glu Asp Ile Trp Asp Asn Met Thr Trp
308      85          90          95
310      Met Gln Trp Glu Arg Glu Ile Asp Asn Tyr Thr Asn Thr Ile Tyr Thr
311      100         105         110
313      Leu Leu Glu Glu Ser Gln Asn Gln Gln Glu Lys Asn Glu Gln Glu Leu
314      115         120         125
316      Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Ser Ile Thr

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317	130	135	140
319	Asn		
320	145		

VERIFICATION SUMMARY

DATE: 01/26/2002

PATENT APPLICATION: US/10/000,321

TIME: 13:42:59

Input Set : N:\Crf3\RULE60\10000321.raw

Output Set: N:\CRF3\01252002\J000321.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1